



4

SEQUENCE LISTING

<110> Blinkovsky, Alexander
Berka, Randy
Rey, Michael
Golightly, Elizabeth
Klotz, Alan
Mathisen, Thomas Erik
Dambmann, Claus

<120> Carboxypeptidases And Nucleic Acids
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<141> 2000-11-13

<150> 08/943,714

<151> 1997-10-03

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Ile	Gly	Val	Asn	Ile	Asn	Tyr	Thr	Gln	Ser	Asn	Asn	Asp	Val	Tyr	Tyr
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<213> Aspergillus oryzae

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<213> Aspergillus oryzae

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 35 40 45
 Phe Asn Gly Gly Pro Gly Cys Ser Ser Met Ile Gly Leu Phe Gln Glu
 50 55 60
 Asn Gly Pro Cys His Phe Val Asn Gly Asp Ser Thr Pro Ser Leu Asn
 65 70 75 80
 Glu Asn Ser Trp Asn Asn Tyr Ala Asn Met Ile Tyr Ile Asp Gln Pro
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 Ile Gly Val Gly Phe Ser Tyr Gly Thr Asp Asp Val Thr Ser Thr Val
 100 105 110
 Thr Ala Ala Pro Tyr Val Trp Asn Leu Leu Gln Ala Phe Tyr Ala Gln
 115 120 125
 Arg Pro Glu Tyr Glu Ser Arg Asp Phe Ala Ile Phe Thr Glu Ser Tyr
 130 135 140
 Gly Gly His Tyr Gly Pro Glu Phe Ala Ser Tyr Ile Glu Gln Gln Asn
 145 150 155 160
 Ala Ala Ile Lys Ala Gly Ser Val Thr Gly Gln Asn Val Asn Ile Val
 165 170 175
 Ala Leu Gly Val Asn Asn Gly Trp Ile Asp Ser Thr Ile Gln Glu Lys
 180 185 190
 Ala Tyr Ile Asp Phe Ser Tyr Asn Asn Ser Tyr Gln Gln Ile Ile Asp
 195 200 205
 Ser Ser Thr Arg Asp Ser Leu Leu Asp Ala Tyr Asn Asn Gln Cys Leu
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 Pro Ala Leu Gln Gln Cys Ser Gln Ser Gly Ser Thr Ser Asp Cys Thr
 225 230 235 240
 Asn Ala Asp Ser Val Cys Tyr Gln Asn Ile Glu Gly Pro Ile Ser Ser
 245 250 255
 Ser Gly Asp Phe Asp Val Tyr Asp Ile Arg Glu Pro Ser Asn Asp Pro
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 Tyr Pro Pro Lys Thr Tyr Ser Thr Tyr Leu Ser Asp Pro Thr Val Val
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 Gly Asp Ala Asp Trp Ile Cys Asn Trp Leu Gly Asn Tyr Glu Val Ala
 340 345 350
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 Ala Pro Tyr Thr Val Asn Gly Val Glu Lys Gly Gln Phe Lys Thr Val
 370 375 380
 Asp Asn Phe Ser Phe Leu Lys Val Tyr Gly Ala Gly His Glu Val Pro
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Met Asn Gly Gly Pro Gly Cys Ser Ser Met Glu Ser Phe Leu Gln Glu
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85 90 95
Pro Tyr Ser Trp Val Val Leu Thr Asn Val Leu Trp Val Asp Gln Pro
100 105 110
Val Gly Thr Gly Tyr Ser Ile Gly Thr Pro Thr Ala Thr Ser Gln Glu
115 120 125
Glu Thr Ala Gln Asp Phe Val Lys Phe Phe Lys Asn Phe Gln Lys Thr
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Tyr Gly Ile Lys Asn Phe Lys Ile Tyr Val Thr Gly Glu Ser Tyr Ala
145 150 155 160
Gly Arg Tyr Val Pro Tyr Ile Ser Ala Ala Met Leu Asp Glu Lys Asp
165 170 175
Lys Glu Tyr Phe Asp Leu Gln Gly Ala Leu Ala Tyr Asp Pro Cys Ile
180 185 190
Gly Gln Phe Asp Tyr Val Gln Glu Glu Ile Pro Val Val Pro Phe Val
195 200 205
Lys Glu Asn Ala Asn Leu Phe Asn Phe Asn Glu Thr Phe Met Ala Glu
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Leu Glu His Leu His Lys Ser Cys Gly Tyr Ala Asp Phe Ile Asp Lys
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245 250 255
Tyr Thr Ser Met Ala Asn Glu Asp Val Phe Asp Met Val Tyr Asn Glu
260 265 270
Val Phe Lys Ile Asn Pro Cys Phe Asp Leu Tyr Glu Val Asn Leu Met
275 280 285
Cys Pro Leu Gln Trp Asp Val Leu Ala Phe Pro Thr Ser Leu Val Tyr
290 295 300
Gln Pro Ala Gly Ala Thr Val Tyr Phe Asp Arg Ala Asp Val Lys Lys
305 310 315 320
Ala Leu His Ala Pro Asn Val Thr Trp Ala Glu Cys Ser Asn Asn Pro
325 330 335
Val Phe Val Gly Gly Ser Ser Gly Pro Glu Gln Glu Gly Asp Thr Ser
340 345 350
Ala Asn Pro Ile Glu His Val Leu Pro Gln Val Ile Glu Ala Thr Asn
355 360 365

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Phe	Gln	Lys	Lys	Pro	Ser	Ala	Pro	Ile	Asp	Ile	Lys	Ile	Pro	Asp	Leu
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Ser	Asp	Ser	Val	Met	Met	Tyr	Ser	Pro	Ala	Val	Arg	His	Leu	Asn
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Thr	Leu														
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